

08/238405

CHIMERIC CHAINS FOR RECEPTOR-ASSOCIATED
SIGNAL TRANSDUCTION PATHWAYS



ABSTRACT OF THE DISCLOSURE

5 Chimeric proteins and DNA encoding chimeric
proteins are provided, where the chimeric proteins are
characterized by an extracellular domain capable of
binding to a ligand in a non-MHC restricted manner, a
transmembrane domain and a cytoplasmic domain capable
10 of activating a signaling pathway. The extracellular
domain and cytoplasmic domain are not naturally found
together. Binding of ligand to the extracellular
domain results in transduction of a signal and
activation of a signaling pathway in the cell, whereby
the cell may be induced to carry out various functions
15 relating to the signalling pathway. A wide variety of
extracellular domains may be employed as receptors,
where such domains may be naturally occurring or
synthetic. The chimeric DNA may be used to modify
lymphocytes as well as hematopoietic stem cells as
20 precursors to a number of important cell types.